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**J. W. COTTRELL, H-1 FOUNDRY**, makes calculations on what is believed to be the world's largest known tungsten susceptor. The ring-shaped component was fabricated for use in the manufacture of tungsten products for the nation's space and nuclear energy programs.

## Large Tungsten Susceptor Is Fabricated For Heating Element

The world's largest known tungsten susceptor (heating element) has been fabricated in Y-12 for use in the manufacture of tungsten products used in the nation's space and nuclear energy programs.

The ring-shaped component is 33 and one-half inches in overall diameter, 16 inches in height and weighs about 716 pounds. Until recently, it was not possible to fabricate a component of this size.

It is being used in the sintering of tungsten components made by power metallurgy techniques. Some of these products include crucibles, rocket nozzles, nose cones, radiation shields, targets for electron beams, reactor fuel element components and electrodes for plasma generators.

Sintering is the heating of a material within a special furnace

to increase its structural strength. A susceptor serves as a heating element inside the furnace. The ring is surrounded by coils through which electric current is applied, resulting in the susceptor being heated to high temperatures — approximately 3,000 degrees Fahrenheit. The susceptor transmits this heat to the material being sintered.

Tungsten is particularly effective as a susceptor because of its refractory properties, its relative chemical inertness and its extremely high melting point (approximately 6,098 degrees Fahrenheit). Tungsten also does not contribute to environmental contamination of tungsten materials undergoing the sintering process.

Fabrication of the susceptor ring required isostatic pressing (equal pressure from every side) at 30,000 pounds per square inch and sintering at 4,350 degrees Fahrenheit for 24 hours.

### Perey Will Lead Joint Seminar This Friday

F. G. Perey, Neutron Physics Division, will lead this week's joint Physics and Neutron Physics Division seminar. He will speak on "Low Energy Nuclear Physics at Saclay."

The seminar is set for Friday, November 19, at 3:15 p.m. in ORNL's East Auditorium, Building 4500.

## AEC, Union Carbide Extend Mine Contract

A uranium concentrate purchase contract between the U.S. Atomic Energy Commission and Union Carbide Corporation has been extended through December 31, 1970. Union Carbide operates the uranium processing mills at Uravan and Rifle, Colorado.

The contract, signed recently in the AEC's Grand Junction office, is the tenth stretch-out agreement to be executed in accordance with the program announced in 1962. The contract prior to the latest extension was set to extend through December 31, 1966.

Under the terms of the new agreement, Union Carbide will stretch-out deliveries under its sales contract by deferring production and delivery of 2,520,000 pounds of  $U_3O_8$  from company owned or controlled properties in the 1963-1966 period, and producing and delivering it in 1967 and 1968. During the two-year period 1969-1970 AEC will purchase an added quantity of  $U_3O_8$  equal to the amount deferred and actually delivered in 1967-1968 which will be within the maximum of 2,520,000 pounds. The total quantity estimated to be delivered from January 1, 1963, under the new contract is approximately 16,745,000 pounds, including concentrates to be derived from eligible independent sources.

The price to be paid for the  $U_3O_8$  in concentrate through calendar year 1968 is \$8 per pound, the same as in the original agreement.

On May 13, 1964, Union Carbide and the Commission signed a stretch-out agreement for the corporation's uranium processing mill in the Gas Hills area of Natrona County, Wyoming.

## United Fund Shows \$68,000 Record-Breaking Total Amount!

Final figures in on Y-12's United Fund drive show a total of \$68,635.56 . . . up 60 percent from last year's total!

A per-employee contribution of \$15.66 marks an all-time high for the plant with four complete divisions giving more than their fair share. A total of 41 departments report in also, well beyond their 'fair share' in giving. Only a few scattered cards remain outstanding, and officials of the drive decided to 'paint off' the final record-breaking figure.

Departments who made their quota are:

- Materials and Services Administration
- Timekeeping
- Special Projects
- Tool Engineering
- General Shop Job Liaison
- Maintenance Division
- Accounting, Budget and Scheduling
- Development Operations
- Ceramics and Plastics Development
- General Mechanical Engineering
- Safety
- Industrial Relations Administration
- Publications
- Training
- Recreation
- Labor Relations
- Employment
- Shift Superintendents
- Superintendents
- Statistical Services
- Radiation Safety
- Quality Liaison
- Secondary Quality Control
- Maintenance Administration Services
- Security
- Estimating and Tooling Coordination
- Cafeteria

**Plant Records**  
**Laboratory Development**  
**Mechanical Development**  
**Engineering Division**  
**Electrical Engineering**  
**Instrument Engineering**  
**A-2 Shops, 9212**  
**Mail Department**  
**9215 Rolling**  
**SS Control**  
**Material Control**  
**Engineering Mechanics**  
**H-1 Foundry**  
**Mechanical Inspection**



A hearty salute to all of these departments who 'went the second mile' this year to ante up the United Funds in the five counties in these environs concerned.

Another 'honor list' of departments shows those giving 100 percent. It will be listed in next week's Bulletin. 'Fair share' giving for Y-12ers has been defined as three-tenths of one percent of salary.

Increased demands on the United Funds in Anderson, Knox, Loudon, Roane and Morgan call for an increase in giving from all citizens of this area. Anderson County alone needs \$160,000 to meet the requirements of the agencies in the worthwhile endeavor.

E. A. Pluhar, co-chairman of

Continued on Page 4



**UNION CARBIDE CORPORATION** upped its contribution this year to the Anderson County United Fund. C. E. Larson, president of the Nuclear Division, center, presents the corporate check to D. L. Coffey, chairman of the Anderson County UF. W. K. Whitson, chairman of the UF for the UCC installations in Oak Ridge, looks on from the left. Larson said Union Carbide increased its 1965 contribution "in recognition of the outstanding response of employees to the United Fund drive. The fine cooperation of union and company representatives was particularly gratifying."

### SAFETY SCOREBOARD

The Y-12 Plant Has  
 Operated  
 40 Days Or  
 1,127,000 Man-Hours  
 (Unofficial Estimate)  
 Through November 14  
 Without A Disabling  
 Injury  
 For Daily Report  
 On Accident-Free Hours  
 Phone 3-7755



# The Bulletin

Published Weekly For The  
Y-12 Employees Of  
UNION CARBIDE  
CORPORATION



NUCLEAR DIVISION

JAMES A. YOUNG .....Editor

Member



Appalachian  
Industrial  
Editors'  
Association

OFFICE

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Oak Ridge, Tenn. 37831  
Bldg. 9704-2 Room 137  
Telephone 3-7100

## Lee Johnson Is Victim In Wreck

An automobile accident Friday, November 5, claimed the life of Mr. Lee Johnson, process operator in H-1 Foundry. Mr. Johnson was returning from work to his Oak Ridge home when the accident occurred.



L. Johnson

Surviving are his wife, Mrs. Inez Johnson, 281 Jefferson Avenue, Oak Ridge; two sons, Johnny and Everitt; a brother, Oliver Johnson; and two sisters, Mrs. Ann J. Bodine and Evie Johnson.

He came to Y-12 back in the early days . . . May 30, 1944, and was a native of Guntersville, Alabama.

Funeral services were held Sunday, November 7, at Martin's Chapel, Oak Ridge. The Reverend Ray Buchanan officiated, and burial followed in the Tennessee Valley Memorial Gardens.

Sincere sympathy is extended to the Johnson family.

## Melton Son Wins AF Commission



Olan K. Melton Jr.

Olan K. Melton Jr., son of Mr. and Mrs. Olan K. Melton has been commissioned a second lieutenant in the U.S. Air Force upon graduation from Officer Training School at Lackland Air Force Base, Texas.

The Meltons live at Route 2, Lenoir City. The senior Melton is in Y-12's General Weld Shop.

Lieutenant Melton, selected for OTS training through competitive examinations, is being assigned to Moddy Air Force Base, Georgia, for pilot training. He is a graduate of Roane County High School, Kingston, and received his B.S. degree from the University of Tennessee. Young Melton is married to the former Judy H. Speers.

## Bill Mee Gives Paper At Scandinavian Meet

Nuclear Safety Aspects Of Reactor Is Topic



William T. Mee

William T. Mee, Y-12's Radiation Safety Department, recently attended a Symposium in Stockholm, Sweden. He delivered a paper entitled "Nuclear Safety Considerations in Fabrication of Massive Partially Enriched Uranium-molybdenum reactor Parts." The Symposium on Criticality Control of Fissile Materials was sponsored by the International Atomic Energy Agency in Stockholm November 1-5.

The paper Mee delivered was prepared by E. C. Crume, J. D. McLendon and Mee.

The paper centered around the safety considerations employed in the fabrication of components for the Super Kukla, a prompt burst reactor. The Super Kukla reactor has been operating at the U.S. Atomic Energy Commission's Nevada Test Site since November, 1964.

Nuclear safety analyses were performed and procedures developed to permit fabrication of the reactor components in the largest single pieces possible within the limitations imposed by criticality and manufacturing capabilities.

Nuclear safety considerations significantly influenced the size of the major components in the reactor.

Considerations of nuclear safety began during the design of the components and extended through the shipping of the final parts.

Mee is a native of Rockwood, and came to Y-12 August 11, 1952. He is a graduate of Tennessee Technological University.

## Metals Society Meet Is Tonight

The Oak Ridge Chapter of the American Society for Metals will meet tonight, November 17, in the East Ballroom of the Student Union Building, on the campus of the University of Tennessee. Henry Lix, park naturalist, Great Smoky Mountains National Park, will speak on the natural and pioneer history of the Smokies. A historical geological account of the land and changing environment through the ages of geologic time will be traced.

Coffee speaker is J. Robert Kattus, ASM National Trustee, who will speak on "ASM—Today and Tomorrow" and show a movie, "Roof of Sky," the story of the construction of ASM headquarters.

Dinner is set for 6:15, with the coffee talk and movie at 7:15 p.m. and the technical address at 7:45 p.m.

Make safe practices a part of your job.



Katy Kutkost  
SEZ:

Every now and then one feels it necessary to be vague—like when:

• Writing a justification for something that really isn't justifiable.

• Answering a security violation summons when it's all your fault.

• Preparing your job description knowing you're already getting more than you're worth.

**Cost Reduction Digest** recently came up with some gems known as "bafflegabs" which show how to develop a high fog index in your correspondence.

1. **Written this way—**

"When an application of wax is made to this surface, a brilliance is imparted to it."

**Means —** "A coat of wax will make it shine."

2. **Written this way—**

"Should the supply of stickers sent you prove not to be sufficient to your needs, application should be made to this office for additional copies."

**Means —** "If you need more stickers, send for them."

3. **Written this way—**

"In reference to communications as required for the clear-writing clinic, the attached memoranda are herewith respectfully submitted as requested."

**Means —** "Here are the sample memos you wanted for the clear-writing clinic."

Since most of the people reading your writing are old pros who have been snowed by experts, it's probably a poor idea to "baffle-gab" ever. And its costs when you make it tough for others to understand your suggestions and orders.

Stick to "shirtsleeve English" and save.

P.S. Some wag called asking who was going to get the cost savings credit for turning off all the lights in the New York, New England area last week. We don't know . . . but are sure the individual is too modest to send in a green sheet.



**PRIZE WINNERS** at the Big Party Night for E, F, G, H and J shifters line up with their booty. Around 100 people attended the Ridge Recreation Hall event, held Saturday, November 6.

## New Electronics Course To Begin

A new night extension course in Industrial Electronic Technology is now being organized to begin on November 22 at Central High School, Wartburg. This class will meet from 7 until 10 p.m. two nights each week.

The course is divided into eight six-month semesters. The cost is \$10 tuition, \$6 for textbooks and \$2.50 for laboratory manuals. The course is approved under the Un-

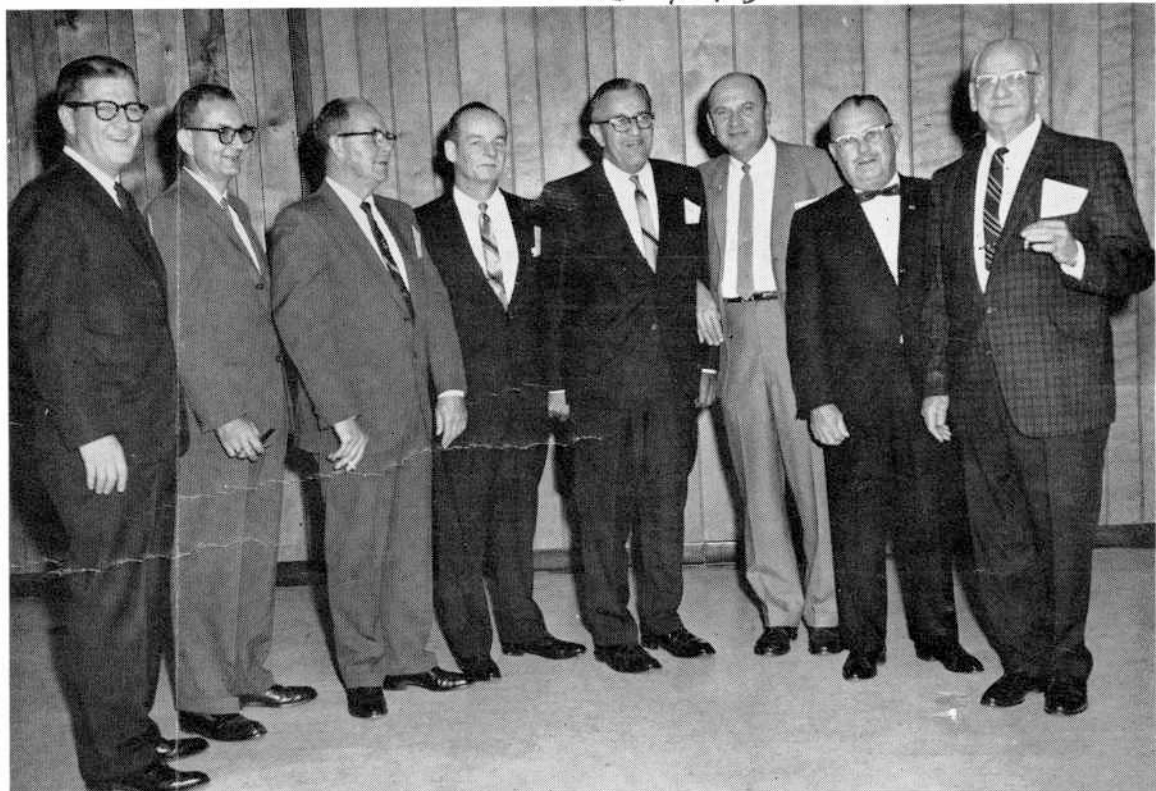
ion Carbide Educational Assistance Program.

Instructors include Bernard Dyer, coordinator; Lonnie Brown, University of Tennessee; T. A. Hickman, Y-12 Research Services; A. A. C. Hitchcock, Oak Ridge Institute of Nuclear Studies; and M. W. McGuffin, Oak Ridge National Laboratory.

Anyone interested in signing up for the courses may contact Hickman, Building 9201-1, telephone extension 3-5059.

Slow down in foul weather . . . you'll live longer.

65-1318



**Y-12 OLD-TIMERS** are all present at the Old Timers Dinner held recently at the Holiday Inn, Oak Ridge. From left are D. W. Harrigan (31 years); H. G. P. Snyder, superintendent of Industrial Relations; D. H. Rader Jr. (35 years); T. I. Sloan (29 years); C. E. Center (38 years); E. A. Pluhar (26 years); S. F. Creigh (35 years) and H. B. Davis (35 years). Two employees, E. C. Kent and F. B. Tredinnick, both of the Oak Ridge Gaseous Diffusion Plant, were welcomed into the veterans' organization.





**CHEERLEADERS AT JEFFERSON JUNIOR HIGH** are all set for the 1965-1966 football-basketball season. In the front row, from left, are Lisa Strang, Islaura Souto, Pam Haythorn and Silvia Mauney. In the back row are Patricia Brock, Ann-Todd King, daughter of Campbell King, Wage Standards; Anita Schimmel, Claudia Congdon and Minnie Spector.

## Rollmasters Edge Up In C Bowling

A one-point lead separates the leaders in the C Bowling league, as the Big Five shared two points last week with the Rodders. The only four point win of the day went to the HiLifers over the Invalids. Three points were grabbed by second-place Rollmasters over the Strikers, the Rounders past the Fireballs. The Shud-A-Beens and Badgers, Sunflowers and Parbusters all shared two points each.

Bill Smith, Rodders, hit his stride in singles, rolling a 242 scratch, 269 handicap game. Ray Galford, Big Five, put series highs of 639 scratch, 681 handicap on the boards.

The Rollmasters rolled well in singles, taking 918 scratch and 1081 handicap scores. The Big Five had scratch series of 2567 while the 'Masters returned to the boards with a 2972 handicap series.

League standings follow:

Team	W	L
Big Five	25	11
Rollmasters	24	12
Strikers	22	14
Rodders	18	18
Rounders	18	18
HiLifers	18	18
Shud-A-Beens	17	19
Parbusters	16	20
Invalids	15	21
Fireballs	15	21
Badgers	14	22
Sunflowers	14	22

## ON THINKING

Thinking, according to our favorite seven-year-old, is when you keep your mouth shut, but your head keeps on talking to itself.

## Recreation



**Sunday, November 21**  
SKEET TOURNAMENT: 1 p.m., Oak Ridge Sportsmen's Association (50-target, 2 rounds).

**Monday, November 22**  
BOWLING: C League, 5:45 p.m., Bush League, 8 p.m., Ark Lanes.

TABLE TENNIS: 7:30, Wild Cats Den, Oak Ridge.

PISTOL LEAGUE: 7:30 p.m., Anderson County Gun Club, Clinton.

**Tuesday, November 23**  
PHYSICAL FITNESS: 7:30 p.m., Oak Ridge High School Gymnasium.

**Thursday, November 25**  
THANKSGIVING DAY: Holiday for Y-12ers.

## Winter Weather Brings Additional Road Hazards

Early darkness, bad weather, and late daylight are principle causes of crossing accidents, according to the National Safety Council. Winter months—October through January—account for more than 40 percent of all grade-crossing accidents. This hazardous situation is intensified in snow-belt states because of rain, sleet or snow which can cause skids into trains and stalls on the tracks. Special caution is required at crossings during this time of year.

## Fishing Rodeo Winners Are Named

The Summer and Fall Fishing Rodeo has ended and winners are lined up by Recreation. There were only 14 entries in the species race. Winners are:

**LARGEMOUTH BASS**  
1. John R. Bosson, Process Maintenance.

2. H. J. Hahn, Buildings, Grounds and Maintenance Shops.\*

**SMALLMOUTH BASS**  
1. T. H. Coulter, Casting Department.

2. R. E. Gibson, General Machine Shop.

**BREAM OR BLUEGILL**  
1. Nelson Tibbatts, Salvage Department.

2. B. E. Burdette, Research Services.

**CRAPPIE**  
1. Elbert Scott, Guard Department.

**WALLEYED PIKE**  
1. H. J. Hahn, Buildings, Grounds and Maintenance Shops.\*

**SAUGER PIKE**  
1. Clay Smith, Physical Testing.

**TROUT**  
1. W. V. Blankenship Jr., Area Five Maintenance.

2. Bobby R. Samples, Technical Reports.

\*Eligible for only one prize... takes highest award.

The weights are omitted on the above catches, since many of them are entered in the Annual Fishing Rodeo as well.

Is your entry in on the year-round one yet? Those applications require photographs... and Recreation still has entry blanks. Just give them a ring on extension 3-7109... they'll be glad to send you some.

## Swingsters Keep Big Classic Lead

The Swingsters stayed in front running in Classic Bowling last week by merely sharing two points with the Cubs. Four point wins went to the Rippers over the Wasps and the Tigers over the Markers.

Three points were added to the Wolves score as they swept past the Splinters, the All Stars attacked the Playboys, the Eightballs rolled past the Smelters, and the Rebels ran over the Bumpers. The Has Beens and Screwballs also shared two points.

Harold Perdue, Tigers, tore into the alleys with singles of 236 scratch, 259 handicap! His series of 611 scratch, 680 handicap was high also.

The Rippers took scratch singles honors with 898... while the Tigers went high on single handicap counting with 1038. The Tigers' series of 2582 scratch and 3010 handicap were high.

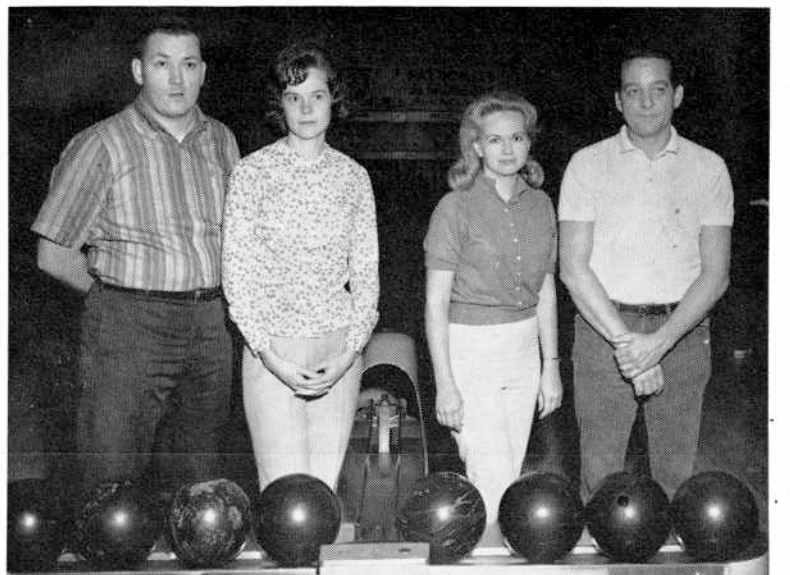
League standings follow:

Team	W	L
Swingsters	30	14
Wolves	26	18
Rippers	25½	18½
Wasps	24	20
Bumpers	24	20
Has Beens	22	22
Screwballs	22	22
All Stars	22	22
Markers	21½	22½
Cubs	21	23
Tigers	21	23
Splinters	20	24
Eightballs	20	24
Rebels	20	24
Playboys	19	25
Smelters	14	30

## Friday Is Deadline Basketball, Volleyball

Recreation is paging Basketball and Volleyball players for winter action in plant leagues. Friday, November 19 is the deadline for filing application to play.

If you want on a team, or have a team to enter, just give Recreation a phone call, extension 3-7109.



**THE TWISTERS** line up in the Mixed Alleys... for Y-12 bowlers. From left are Don and Dixie Stinnett and Donna and Spence Ferguson. The Twisters are currently enjoying the dubious honor of cellar-dwelling in the men-women bowling circles.

## Goofers Tame Alley Cats To Retain Mixed Bowling League's Top Berth

The Goofers tamed the Alley Cats last week in Mixed Bowling circles to hang onto a tight lead in the league. They took three points from the Cats. Four point wins went to the Blue Angels over the Better Halves, and the Chumps over the Twisters.

The Mustangs seized three from the Subs. Georgia Rader, Goofers rooted out a 187 scratch single game. She and Verna Peckman, Blue Angels, tied for high singles in handicap scoring, each with 233. Virginia Newby, Goofers, scratched in series with 462 and Betty Tripp, Chumps, took a 602 handicap series.

On the male side it was Bill Smith, Alley Cats, rolling a 198 single scratch, 542 scratch series, and a 617 handicap series. Jim Davis, Chumps, posted a 227 handicap single. Meanwhile, Jim Thompson, Chumps, aced a pick-up on a 6-4, 10 split.

Team honors went to the Goofers in scratch counting, with singles of 632 and series of 1845. The Chumps took handicap honors with singles of 783 and series of 2302.

League standings follow:

Team	W	L
Goofers	26	10
Blue Angels	22	14
Alley Cats	19	17
Chumps	17½	18½
Subs	17	19
Mustangs	16½	19½
Better Halves	16	20
Twisters	10	26

## Motley Keeps Ping Pong Lead

The Table Tennis League dug into its second week last week and saw Bill Motley still with a spotless slate. He took five games from G. W. Brewer in Monday's action.

Lloyd Wyatt took four games from Gene O'Hara, also four from Bill Maddux. Maddux conquered Ed Gambill for five.

A. J. Norris clipped J. Lewin for the full count... and Gambill took three from Norris. W. D. Jones wrested three at the expense of Jim Carter, and Brewer won a forfeit victory from Carter.

League standings follow:

Player	W	L
W. B. Motley	10	0
L. E. Wyatt	12	3
A. J. Norris	7	3
W. A. Maddux	10	5
W. D. Jones, ORNL	3	2
M. E. O'Hara	4	5
G. W. Brewer	6	9
E. F. Gambill	3	7
Jim Carter, ORNL	3	7
R. L. Huddleston	1	3
J. B. Peters	0	5
Joe Lewin, ORNL	0	10

## OLD ROCKING CHAIR

Worry, like a rocking chair, will give you something to do; but it won't get you anywhere.

## FLUBS Are New Bush Alley Tops

The FLUBS grabbed first standings in the Bush League among Y-12 bowlers last week. They downed the Outcasts for three big points. The Regents moved up also by taking the Dry Hides for four. The other contest saw the four-point win by the Untouchables as they dethroned the Beavers.

Harold Perdue, Regents, took high scratch honors, posting a 196 single, 524 series tally. Joel Thomason, Regents, took a 234 handicap single... and Don Forrester, Untouchables, touched a 610 handicap series.

The Untouchables made the boards with high singles of 797 scratch, 1024 handicap; while the Regents wrapped up scratch series honors with 2289. The Untouchables returned to the boards with a 2921 handicap series total.

League standings follow:

Team	W	L
FLUBS	15	9
Regents	14	10
Beavers	12½	11½
Outcasts	11	13
Untouchables	11	13
Dry Hides	8½	15½

## Y-12 Rifle Team Surges Forward!

Y-12ers surged forward last week in the 22 Calibre Rifle League to take high scratch and handicap firings. Scratch scoring went: Y-12: 1442; X-10 and Independents, both 1433. Handicap tallies were Y-12: 1457.418; X-10: 1450.150; and Independents: 1446.-834.

The hot Y-12 riflemen were spurred by Carl Brewster and R. J. Spurling, each with a 289 scratch score. They were followed by Dave DeWalt, Jack Huff, B. L. Powers and Bert Searles... all with 288.

Handicap honors went to Brewster, 293.412... Spurling, 291.556; and G. W. Holcombe, 291.182.

Thus the Y-12 team gained six points in major over-all standings after faltering in the last two or three matches.

League standings follow:

Team	Points
ORNL	25
Independents	26
Y-12	25



**PROVING AGAIN THAT** this summer was good for freak fruit and vegetables, C. F. Robinette produces one of a pear that grew at his Route 3, Kingston, place. It looks more like a grapefruit.



**UNION CARBIDE CORPORATION**  
**NUCLEAR DIVISION**

RETURN POSTAGE GUARANTEED

Post Office Box Y  
Oak Ridge, Tennessee—37831BULK RATE  
U. S. Postage  
**PAID**  
Oak Ridge, Tenn.  
Permit No. 71**FINAL DIVISIONAL CONTRIBUTIONS**

Accounting and Budget	\$ 700	\$ 706.96	101
Assembly	3,697	2,501.30	68
Development	5,224	5,216.04	100
Engineering	5,004	4,837.23	97
Fabrication	19,109	11,965.70	63
Industrial Relations	1,326	1,225.74	92
Maintenance	21,677	15,057.81	69
Metal Preparation	9,236	7,333.52	80
Product Engineering	2,902	3,049.04	105
Superintendents	2,655	3,025.44	114
Shift Superintendents	4,460	2,710.04	61
Product Certification	6,475	5,460.64	84
Technical	3,287	2,970.26	90
Materials & Service	3,248	2,566.84	78
<b>TOTAL PLANT</b>	<b>\$89,000</b>	<b>\$68,635.56</b>	<b>77</b>

*Polawid*

**L. E. PATTERSON, SIGN SHOP**, puts the finishing touches on the big football field sign showing Y-12's record-shattering \$68,635 contribution to the United Fund. This is 60 percent more than was contributed last year, with the plant population down almost 1,000!

**United Fund**

Continued from Page 1  
Y-12's drive voiced pleasure in 1965's efforts. "Every solicitor did his part in helping increase our giving this year. It is gratifying to work with people with this kind of dedication."

So, congratulations to the entire plant . . . those who increased their giving this year . . . and those who came in for the first time.

**CORRECT THAT GRAMMAR!**

Teacher: Will you correct this sentence. "Girls is naturally better looking than boys."

Student: "Girls is artificially better looking than boys."



**Ride wanted or will join car pool from North Knoxville to West Portal, E Shift. W. R. Clevenger, plant phone 3-7101, home phone Knoxville 523-6558.**

**One carpool member wanted from vicinity of Victor Drive, Norwood Section, Knoxville, to any portal, straight day. C. A. Crutchfield, plant phone 3-7247, home phone Knoxville 689-9946.**



**FIRE PREVENTION WEEK** last month brought good results throughout the plant with hearty commendations from inspectors from their various locales. Above are prize-winning inspectors who garnered awards for their labors. Standing from left are W. C. Walker, ORNL; F. H. Neill, Reactor Division; C. A. Boone, Assembly; A. J. Fisher, Shift Superintendents; D. R. Carter, Product Engineering; H. D. Cunningham, Classification and Information; R. B. McLees, Development; Jay Coates, Fabrication. Seated are R. C. Pruden, Maintenance; T. A. Narcrosse, Accounting and Budget; R. T. Rose, Materials and Services; J. E. Thompson, Metal Preparation; Madeline Keck, Engineering; and Ann Ware, Industrial Relations. Congratulations, men and women, on a job well done!



Mid-November breaks over several anniversaries celebrated by Y-12ers who cross important milestones with Union Carbide Corporation. Congratulations.

**20 YEARS**

**Stanley H. Cole**, Production Assay, November 17.

**Paul E. Gipson**, Guard Department, November 19.

**Robert H. Freeman**, Electrical Department, November 19.

**Fred B. Guttery**, Chemical Services, November 19.

**John F. Bruce**, Guard Department, November 20.

**Edgar Guettner**, Stores Department, November 21.

**Vernon Huddleston**, Arc Melting, November 23.

**Marcus B. Potter**, Chemical Services, November 23.

**Leonard H. Guettner**, Stores Department, November 23.

**15 YEARS**

**John D. Campbell**, General Weld Shop, November 17.

**Addie D. Lynch**, Physical Testing, November 17.

**Herron H. Gresham**, Tool Grinding, November 20.

**Cota Tharp**, General Foundry, November 20.

**James F. Price**, Guard Department, November 20.

**Guy L. Seaton Sr.**, Accounting, Budget and Scheduling, November 20.

**Harold E. Cornell**, A-2 Shops, 9212, November 20.

**Edward T. Creech**, Production Analysis, November 20.

**Okey H. Dunaway**, Dimensional Inspection, November 20.

**Charles E. Harness**, Mechanical Inspection, November 21.

**Woodrow W. Chilcoat**, H-2 and F.A. Area Shops, November 21.

**Fred G. Childress**, Ceramics and Plastics Development, November 21.

**10 YEARS**

**Joseph R. Morton Jr.**, General Machine Shop, November 17.

**James D. Goodman**, Alpha Five Machine Shop, November 18.

**VERSATILE DRILL**

A new featherweight portable drilling rig that is so small it will fit in a golf bag is rugged enough to drill waterwells up to 200 feet deep.

A good employee is a safety conscious one.

**Ocean Systems Will Do Research**

Ocean Systems, Inc., a Union Carbide affiliate, has been awarded an ocean engineering contract. They will conduct a detailed study of present and potential ocean engineering systems, involving manned underwater facilities and operations, under a subcontract awarded by Electric Boat Division of General Dynamics. The study will be part of a broader research and development program related to the salvage of large objects, which Electric Boat is conducting for the U. S. Navy's Special Projects Office.

Ocean Systems' efforts include: diving systems; diver mobility; physiology; compression and decompression; life support; underwater tools and equipment; underwater habitations; submersible and deck decompression chambers; topside support systems, and miscellaneous detection and communication equipment used in conjunction with manned underwater operations. Ocean Systems already has demonstrated and commented capabilities in these specialized activities, both at the operating as well as laboratory levels.

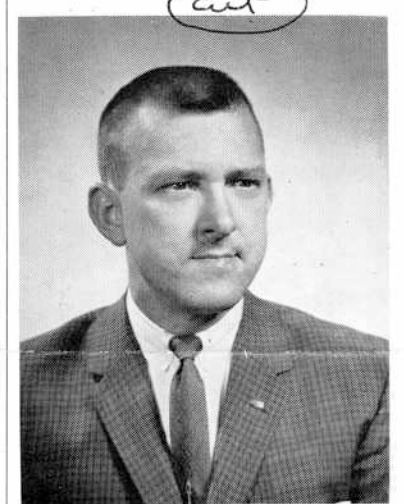
**Look Who's Extolling Profits In The Open!**

"Profit is the only source of expansion of production." Believe it or not, that is a direct quote from Pravda, official newspaper of the communist party of the USSR. Professor Leonid Kassirov, a highly placed Russian economist, was quoted as saying that the best way to produce more food would be to run Russian farms for profit.

The next thing we know the Reds will be saying they created profits!

**Eyesight Is Vital Part Of Earning Power**

To earn a living, you depend on eyesight six times as much as your other senses put together. Be sure you always wear eye protection when needed. Wear only your own safety glasses — not someone else's either. Have them properly fitted, keep them clean and in good condition, and always readily available. Give the only pair of eyes you'll ever have all the best of protection and care.

**Scott To Address Health Physicists****L. Max Scott**

L. Max Scott will present a program related to the detection and measurement of radiation within the human body at the next meeting of the East Tennessee Chapter of the Health Physics Society to be held November 23, 7:30 p.m., at the ORINS Medical Division conference room.

The program is entitled, "Development and Uses of In Vivo Gamma Spectrometry." It is expected to include a short history of in vivo gamma spectrometry and a discussion of various types of body counters. The discussion will cover both routine and unique uses of body counters.

Scott, a graduate of Texas A and M, received M.S. and Ph.D. degrees from Purdue University in the field of population genetics. He is Health Physics Group Supervisor responsible for internal and external personnel monitoring at the Y-12 plant and has authored numerous papers on internal dose evaluation and monitoring techniques.

The meeting and program is open to the public and those interested in Health Physics and radiation protection are extended a special invitation to attend the November meeting.

**WET HANDS, BEWARE!**

Never touch appliances such as radios and heaters while washing or bathing . . . and don't place them where they might fall into water.

Stone and Webster Engineering Corporation, Boston, designed and built Y-12 with the help of University of California experts.